

PLASTICS ENGINEERING COMPANY

3518 LAKESHORE ROAD SHEBOYGAN WISCONSIN 920.458.2121 fax 920.458.1923

www.plenco.com

MATERIALS ENGINEERING LABORATORY DATA REPORT **Plenco 06404** Two-Stage Phenolic

transfer molded

Plenco 06404 is a glass fiber and mineral filled two-stage phenolic molding compound offering superior molded mechanical properties, especially tensile strength. Plenco 06404 is available in black. Plenco 06404 is UL recognized under component file E40654.

PROPERTY	met	rio	eng	lich	ASTM Test Method
Form	Briquette		eng	11911	Method
Apparent Density		g/cm ³	43.9	lb/ft ³	D1895
Specific Gravity	1.71	9,			D792
Mold Shrinkage*	0.0011	m/m	0.0011	in/in	D6289
Post Shrinkage 72hr 120°C	0.03	%			D6289
Izod Impact Notched	59.4	J/m	1.11	ft·lb/in	D256
Charpy Impact Notched	52.9	J/m	0.99	ft·lb/in	D256
Drop Ball Impact	395	J/m	7.4	ft·lb/in	Plenco
Tensile Strength	147	MPa	21,389	psi	D638
Tensile Modulus	17,147	MPa	2,487,000	psi	D638
Tensile Elongation	1.0	%		•	D638
Flexural Strength	220.8	MPa	32,020	psi	D790
Flexural Modulus	16,631	MPa	2,412,000	psi	D790
Compressive Strength	300	MPa	43,556	psi	D695
Heat Resistance	238	°C	461	٥F	D794
Deflection Temperature 1.82MPa	270	°C	518	٥F	D648
Water Absorption	0.13	%			D570
Rockwell Hardness	99	E scale			D785
Dielectric Strength short time	14.5	kV/mm	369	V/mil	D149
Dissipation Factor, 1MHz	0.037				D150
Permittivity, 1MHz	5.3				D150
Volume Resistivity	5.2E+11	ohm∙cm	2.0E+11	ohm∙in	D257
ASTM Arc Resistance	120	sec			D495
Comparative Tracking Index	183	V			D3638
UL Flammability	V-0,5V-A	@1.5mm			UL 94
Oxygen Index		%			D2863
Coefficient of Thermal Expansion	4.1E-05	/ºC	2.3E-05	∕⁰F	E831
Thermal Conductivity 100°C	0.42	W/m/⁰C	0.24	Btu/hr/ft/ºF	E1461

Store in cool dry place.

The Typical Values listed are results obtained from the testing of standard specimens using the stated test procedures, with said specimens molded under controlled laboratory conditions from representative samplings of the product. Although Plastics Engineering Company at all times reserves the right to make changes in the materials, suppliers and processing, the values listed as typical are those to be expected at the time of our manufacture. The final determination of the accuracy or completeness of any information, the suitability of the product for the use contemplated, the manner of its use, and the matter of any infringement of patents in use, are all the sole responsibility of the user. PLASTICS ENGINEERING COMPANY MAKES NO WARRANTY, EXPRESS OR IMPLIED, WITH RESPECT TO THIS PRODUCT, INCLUDING NO WARRANTY OF THE MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE. Plastics Engineering Company reserves at all times the right to discontinue the production of any or all of its products. This is an uncontrolled copy and not subject to updates. *Mold Shrinkage obtained under controlled laboratory conditions with relatively simple mold geometry and should be used for comparison purposes only and not for actual tool design. ver 080624